

WHAT IS CLAIMED IS:

1. An image processing system, comprising:  
image input means for inputting photographing  
images;

5 first arrangement means for arranging plural  
images of optional sizes input by said image input  
means within an output area of a definite size;

second arrangement means for deleting  
predetermined areas of the images to be arranged on the  
10 basis of an arrangement result obtained by said first  
arrangement means and arranges the images again within  
said output area; and

image arrangement means for determining an  
arrangement of said images within said output area and  
15 executing said arrangement on the basis of an  
arrangement result obtained by said first arrangement  
means and an arrangement result obtained by said second  
arrangement means.

20 2. A system according to Claim 1, wherein said  
second arrangement means deletes a predetermined area  
of a runover image by a quantity determined on the  
basis of a width of the runover image when an image  
runs over said output area as a result of an image  
25 arrangement by said first arrangement means.

3. A system according to Claim 1, wherein said

second arrangement means deletes a predetermined area  
of a runover image by a quantity determined on the  
basis of a width of an arrangement area for the runover  
image when an image runs over said output area as a  
5 result of an arrangement by said first arrangement  
means.

4. A system according to Claim 1, further  
comprising area direction setting means for setting a  
10 direction of said output area,

wherein said first arrangement means comprises:

means for arranging said images in said output  
area in a first direction set by said area direction  
setting means; and

15 means for arranging said images in said output  
area in a second direction different from said first  
direction.

5. A system according to Claim 4, wherein said  
20 first arrangement means arranges a runover image in  
said second direction when an image runs over said  
output area as a result of arrangement of said images  
in said output area in said first direction.

25 6. A system according to Claim 1, wherein said  
second arrangement means acquires a runover quantity  
when an image runs over said output area as a result of

the arrangement by said first arrangement means, and  
said image arrangement means determines an  
arrangement of said runover image in said output area  
on the basis of said runover quantity.

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7. A system according to Claim 1, further  
comprising area direction setting means for setting a  
direction of said output area,

wherein said first arrangement means comprises:

10 means for arranging said images within said output  
area in a first direction set by said area direction  
setting means; and

means for arranging said images within said output  
area in a second direction different from said first  
15 direction,

wherein said second arrangement means comprises:

means for acquiring a first runover quantity in an  
arrangement in said first direction when an image runs  
over said output area as a result of an arrangement by  
20 said first arrangement means; and

means for acquiring a second runover quantity in  
an arrangement in said second direction, and

said image arrangement means determines an  
arrangement of said runover image in said output area  
25 on the basis of said first runover quantity and said  
second runover quantity.

8. A system according to Claim 7, further comprising image adding means for consecutively adding images to be arranged,

5 wherein said first arrangement means arranges said images once again excluding a finally added image when said first runover quantity or said second runover quantity exceeds a predetermined quantity.

9. A system according to Claim 1, wherein said  
10 image input means inputs photographed radiation images.

10. A control method of an image processing system for processing photographing images, comprising steps of:

15 inputting photographing images;

arranging plural input images of optional sizes in an output area of a definite size;

20 deleting predetermined areas of images to be arranged on the basis of an arrangement result at said first arranging step and arranging the images within said output area once again; and

determining an arrangement of said images in said output area on the basis of an arrangement result at said first arranging step and said second arranging

25 step.

11. A control method according to Claim 10,

wherein a predetermined area of a runover image is  
deleted by a quantity determined at said second  
arranging step on the basis of a width of the runover  
image when an image runs over said output area as a  
5 result of an arrangement at said first arranging step.

12. A control method according to Claim 10,  
wherein a predetermined area of a runover image is  
deleted by a quantity determined at said second  
10 arranging step on the basis of a width of an  
arrangement area when an image runs over said output  
area as a result of an arrangement at said first  
arranging step.

15 13. A control method according to Claim 10,  
further comprising an area direction setting step of  
setting a direction of said output area,

wherein said images are arranged in said output  
area in a first direction set at said area direction  
20 setting step and in a second direction different from  
said first direction.

14. A control method according to Claim 13,  
wherein a runover image is arranged in said output area  
25 in said second direction at said first arranging step  
when an image runs over said output area as a result of  
arranging said images in said output area in said first

direction.

15. A control method according to Claim 10,  
wherein a runover quantity is acquired at said second  
5 arranging step when an image runs over said output area  
as a result of an arrangement at said first arranging  
step, and

an arrangement of said runover image in said  
output area is determined at said executing step on the  
10 basis of said runover quantity.

16. A control method according to Claim 10,  
further comprising an area direction setting step of  
setting a direction of said output area,

15 wherein said images are arranged in said output  
area at said first arranging step in a first direction  
set at said area direction setting step and said images  
are further arranged in said output area in a second  
direction different from said first direction,

20 a first runover quantity in a disposition in said  
first direction and a second runover quantity in said  
second direction are acquired at said second arranging  
step when an image runs over said output area as a  
result of an arrangement at said first arranging step,  
25 and

an arrangement of said runover image in said  
output area is determined at said executing step on the

basis of said first runover quantity and said second runover quantity.

17. A control method according to Claim 16,  
5 further comprising an image addition step of  
consecutively adding images to be processed,

wherein said images are arranged once again with a  
finally added image excluded at said first arranging  
step when either of said first runover quantity or said  
10 second runover quantity exceeds a predetermined  
quantity.

18. A control method according to Claim 10,  
wherein photographed radiation images are input at said  
15 image input step.

19. A memory medium storing a program readable by  
a computer for allowing an image processing system for  
processing photographing images to execute following  
20 steps,

wherein said program comprises:

inputting photographing images;

arranging plural input images of optional sizes in  
an output area of a definite size;

25 deleting predetermined area of the images to be  
arranged on the basis of an arrangement result at said  
first arranging step and arranging said images in said

output area once again; and

determining an arrangement of said images in said  
output area on the basis of an arrangement result at  
said first arranging step and an arrangement at said  
5 second arranging step, and executing said arrangement.

20. An image arranging method for consecutively  
arranging plural images of optional sizes from a left  
upside to a right downside in an output area of a  
10 definite size so that the images are arranged in bands  
in a line or row direction in said output area,  
comprising:

a first arranging step of arranging said plural  
images in said output area;

15 a second arranging step of arranging said plural  
images once again in said output area so that marginal  
portions of some or all of said plural images are  
deleted by narrowing widths of said bands at ratios  
proportional to widths of said bands when said plural  
20 images can not be arranged in said output area in a  
vertical direction and narrowing widths of images  
existing in a band wherein an image which can not be  
arranged in a horizontal direction of said output area  
exists at ratios proportional to the widths of the  
25 images when said plural images can not be arranged in  
said output area in a horizontal direction, and

an image arranging step of determining an



arrangement of said plural images on the basis of arrangement results at said first arranging step and said second arranging step.

5           21. An image arranging method according to Claim 20, further comprising an area direction setting step of setting direction information of said output area,

          wherein said first arranging step comprises a step of performing an arrangement of said images once again  
10 in a second direction different from a first direction set at said area direction setting step when a given image runs over said output area in an arrangement in said first direction, and

          wherein said second arranging step comprises a  
15 step of arranging said plural images once again when a given image runs over said output area in an arrangement at said first arranging step.

20           22. An image arranging method according to Claim 20, wherein said first arranging step comprises:

          a step of arranging the images in a first direction set at said area direction setting step; and

          a step of arranging the images in a second direction different from said first direction,

25           wherein said second arranging step comprises a step of acquiring a first runover quantity which is produced when said plural images can not be arranged in

said output area in said first direction and a step of acquiring a second runover quantity when said plural images can not be arranged in said output area in said second direction, and

5            wherein said image arranging step comprises a step of determining an image arrangement in a direction corresponding to a runover quantity whichever is smaller.

10           23. An image arranging method according to Claim 22, further comprising a step of consecutively adding images to be processed,

             wherein said image arranging step comprises a step of excluding an image finally added at said image  
15           adding step when the first runover quantity or said second runover quantity whichever is smaller exceeds a definite ratio of said output area for the first time.

20           24. An image arranging method according to Claim 20, further comprising a step of reducing said plural images to an image.

25           25. An image arranging method according to Claim 20, further comprising a step of arranging said bands uniformly in said output area.

26. An image arranging method according to Claim

20, further comprising a step of arranging said images uniformly in said bands.

1. A method of processing a plurality of images, comprising:  
a. receiving a plurality of images;  
b. arranging said images in a uniform manner;  
c. processing said images in a uniform manner;  
d. outputting said images in a uniform manner.